Plant Operations Notebook, N-95-00-00.2

This undated notebook was used by Edison and an unidentified author, possibly in 1900; however, it may have been used as early as 1895. The book is primarily a record of observations concerning maintenance and repairs needed at the Ogden plant. The headings of individual pages are in Edison's hand. The book contains 105 numbered pages, followed by one unnumbered page with an entry on the #9 Elevator. At the beginning of the book is an index to all but the last entry.

Blank pages not filmed: 96-97.

1 [illegible] #2 Elev
3 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
11 [illegible] Rolls
13 [illegible] Roll
15 [illegible]
[illegible]
[illegible]
17 [illegible]
[illegible]
19 [illegible]
#3 [illegible]
21 [illegible] #1
23 [illegible]
25 [illegible]
27 [illegible]
29 [illegible]
[illegible]
33 Dryer #1 + Dryer furnace
35 [illegible]
Picking Belt Conv. #1 1/2
37 #2 Conv
#2 [illegible] Shaft
39 #2 Elevator
41 #3 Conv
43 [illegible] N.S.
[illegible] S.S.
45 [illegible] #1
47 Jack Shaft #2 [illegible]
[illegible]
49 [illegible]
[illegible] Engine
51 Dynamo Power House
53 [illegible] Boilers
55 [illegible] Jack Shaft in Eng Room
Main Shaft in Mill
Fan exhaust Branch Eng Hse
57 Orr Boilers
59 3 High Rolls Jack Shaft
61 4 x 5 Conv
63 Mine Pump.
Mc+Seymour Eng
65 Screens over 14 M Rolls.
1st 14 M Rolls.
67 2nd 14 M Rolls
69 1st 50 M "
71 2nd 50 M "
73 - #4 Elev
75 #5 "
77 #6 "
79 Dryer #2
81 14 M Screens,
50 M Screens
12" Magnets
83 [illegible] Magnets
85 Blower floor
87 4" Magnets
89 Belt Machine
91 [illegible]
No 2 [illegible]
93 Fire Apparatus
95 [illegible]
99 No 1 Loco
101 " 2 "
103 " 3 "
105 Yard Eng.

Breaker

1

8 Elevator —

Oil leaking out of top drum bearings =
Oil leaking out of sprocket wheel bearings =
Oil " " " top drum bearings =
Wood lagging wore quite bad on bottom
drum = Pinion shaft bearing wet to conveying
Take up belt drive = Straighten bent buckets =

#3 [illegible]

Hole worn in chute discharging into Modern chute against stack danger of fire. Finish fans at tops & put on lighter belt. Put new babbitt shells in post hangers worst side bearing on counter shaft driving fan at tops. Old drain pipes & rawhides leaking on counter shaft driving fans at tops #3 dryer. Oil leaking very bad out of fuel & drain pipes on counter shaft driving fans at tops #3 dryer.

Fans from [illegible]

Patch on No 5 fan water jacket leaking several oil pipes leaking = Several bad oil leaks = Rawhides leaking on all fans = Fans needs to tightened on shaft #7 broken oven oil leaking out of #8 broken oven fan hanger same #9 = Engine driving fans need rep = One bearing needs canvassing on counter shaft driving fans.

Broker Machines

Frame No 1 Brokers = One set of 3rd plungers
wanted for 3rd & 4th, one set Lapper breaking
wanted " " " = One set second plungers
" " " " = Main oil pipe breaking
bad near No 30 = Oil pipe leaking on bevel
gear bearings, on north line shaft driving
Brickmaker wheel leaking out of 2d bearing
from bevel gear driving north line brocker
machine line shaft = Main oil pipe leaking
that feeds brocker machine line shaft = One
bearing needs oil washing on sprocket wheel
line shaft under brocker machines =
Oil leaking out of several bearings on
sprocket wheel line shaft under brick mch.
Belts need to be gone over & tightened on
line shaft hangers under brocker mch.
Conveyor needs tops on pinion shaft bearing
next to pulley driving sprocket wheel line shaft
under brocker machines = Set screws out
of pulley on west end of main shaft
over Brocker Mch.

No 1 Jackshaft

Dynamos on Crushing plant

No 1 Countershaft

Driving pulley is loose on shaft
Oil drain pipe leaking on west end
bearing. Bit screws loose in main drive
pulley. Engine needs rep & to be tightened
on tightener pulley on belt driving #1 Counter Shaft
Bolts need to be tightened in wood Engine
on tightener pulley on belt driving #1 Cdlg
Mercury works left open last night.
New canvas wanted.

Corliss Engine No 1

Railing should be repaired around
fly wheel - dangerous - New canvas splice
wanted on west main drive belt - West
main drive belt is wearing on woods.
Nar partition rep. that was broken by belt.
Steam gauge in #1 Corliss Eng room needs rep.
Oil waste should be removed from oil tank
in #1 & 5 rooms.

Muck House

Two steam pipes leaking over muck kettle = steam pipe leaking over muck kettle = Drip pipe under 3 H.P.R. is plugged up so it let oil back up on bearings 5 & 6 + run out in belt = oil leaking out of valve stem near tank in Muck House = Lock should be put on house over oil drain tank in #1 Mill = oil leaking out of rivet hole on tank at Muck House = oil leaking out of valve stem near tank at MH.

Cordier Packshaft = No 2 packshaft

Drive belt from #1 C.E. J.L. to #1 Counter needs to be taken up = Have belt from #1 C.E. J.L. to #3 Counter shaft taken up = set screws loose in pulley to driving giant roll = Mercury cock + main valve left open last night on J.L. in #1 C.E. Dynamo room = Union leaking on oil pipe of #1 C.E. J.L. = New canvas wanted on line shaft bearing in #1 C.E. dynamo room = set screws loose in pulley on #1 C.E. J.L. that drives giant roll = New rawhide wanted #C.E. J.L. New belt wanted on drive from #1 C.E. J.L. to #1 Counter = Belt from #1 C.E. J.L. to #1 counter shaft need taking up = Four pulleys on #1 C.E. J.L. are loose on shaft =

No 2 Countershaft

New canvas wanted on bearings.

Intermediate Roll

Several new plates wanted = New lagging wanted on drive pulley to Int Roll & Counter Shaft = Shutters wants to be replaced over Int. Roll Belt = New guard wanted over belt = Painter wanted on adjusting bolt on north Int. roll friction band = Some plates wore very smooth. Should have some new ones = 5 Bolts loose on north roll = Countersunk bolts loose in hopper = ~~Hook~~ drive belt = north roll bearing runs hot west side = 4 bolts very loose on south roll = 7 bolts loose on north roll = 8 bolts loose in south + 8 bolts loose in north roll = Washers wanted for bolts in plates = One hole in new plate on south roll needs to be chipped out = All casing leaking inside = Stone get bitter in roll = Housing + wear grooves in arbor = Put on two new plates = Drive pulley on north roll pounds = Bolts loose in hopper = One hook nearly pulled out in drive belt = Levers used to turn roll need sharpening = 2 bolts loose in each roll = Oil leaking out of union on drain pipe on south roll thrust bearing = Bolts need to be one over = One plate is worn bad = 4 bolts loose on south + 3 bolts loose on north roll = Inside oil casings leaking = One plate is not down on corners

Giant Roll -

Belt driving roller feed needs to be taken up. 7 bolts loose on north & bolts loose on south. Union leaking on pipe oiling E.P. = Iron broke on Cradle of dump = Screw needs taking up = New canvas splice wanted on belt driving roller feed = Bolt out of plate on roller feed = No bolts loose = Two new plates wanted soon = Washers wanted for bolts in plates. Oil leaking out of north roll oil coming west side inside = Oil leaking out of south roll oil coming east side inside = Top adjusting bolt through west housings is loose. Please have floor rep. on dump floors. Have iron plate put on dump to keep stones from going down back of roll = Several leaks in pipes oiling wobbler bearings. Levers used to turn roll need sharpening = One bolt loose in north #10 bolts loose in south roll = Jam nuts wanted on set screws in drive pulley = Oil leaking out of valve stem on pipe oiling east end bearing of south roll. Union leaking on south roll thrust bearing = Bolts need to be gone over. = Oil rail board broken on steps leading to roll. = 1 bolt loose on north + 2 bolts loose on south roll. = Belt needs taking up. Lagging on pulley drive is badly worn = Oil leaking out of thrust bearing on north + south giant rolls. =

Giant Roll continued

Oil leaking out of north roll oil casing wood side=

Giant Roller feed

Apply belt shaved be put on= Drive Belt nuts to be taken up= Plates are bent= Bolts loose= Bolts wanted in= they loose in friction lever. Iron plates repaired tonight= Put smaller pulley on countershaft drive. to reduce speed one half= Driver pulley is broken= Iron drive pulley lagged. Needs to be taken up= Iron rep. cannot turn sticks on wood around same= Belt nuts tightening= Clutch needs lagging= Drive needs to be taken up= out of order catches on wood work= will stop. Pinion key wanted in bevel gear drive

Roller feed under Intermediate foot

1 Elevator

Hoist Roller feed Continued
Tap bolts out of sheet iron end. Neck rep.
Have plates fastened down to night. Make
provision for new worm & gears. Bolts need
to gone over at ball on on #1 Flex. Rear worm
were very bad. & bolts loose.

Crane No. 1
Found one wire broken in hoist rope.
Have oil barrel cut in middle & bolt put
on as to oil chain & rope on #1 & 2 Cranes.
Armature on hoist needs rep. Carriage brake
needs rep. grip blocks need planing off. Brush
holders need to be lined with contact strips.
New wood wanted on friction bands.

Crane No 2
Flaw in hook. skip chain. Links in hoist
chain are worn. #2 Chain is very dry.
Rivets are loose in back end hoist motor.
Chain needs to be annealed.

Craneway —
Have wood filling piece put between iron on east side. Crane track out 1½" causes armatures to burn out.

No 3 Jackshaft

Elevator #1 Continued

One belt driving roller feed is wearing on bale of tightener = Bolts loose in top west side = One oil cup off west side = Blank clamps are loose = Bolts loose in pinion bearing west side = Set screw loose in gear wheel need to hoist gate at bottom = Wires broken in rope = Bottom drum too high = Three plates broken on retarding roll at bottom = Several int. clamps have slipped on east side = Blank clamps are loose = Bum hard to the east at top = One sleeve broken on west side = One sleeve broken on west side = One clamp loose west side = Blank clamps are loose = Oil leaking out of pinion shaft bearing next to pulley drive = Belt tightener on drive needs new lag going = Raw hides leaking on roller feed = Valve stem needs packing at top #1 Elev tank = Oil pipe broken on sprocket chain on the shaft bearing driving roller feed at bottom #1 Elev = One oil cup off = Pinion leaking on oil pipe at top =

Elevator No 1

Belt driving needs to be taken up. New shoes should be put on friction clutch tonight = One short sleeve broken on east west side = Drip pans should be put up on west side = Bottom drum is too high = Oil hose on west side bottom drum bearing is bad so oil cannot pass through. One rubber hose leaking on right feed #1 Elev roller feed = Bolts loose in guard over retarding roll at bottom = Same in angle iron = Bolts loose = One belt wanted in clamp on guard over retarding roll at bottom One bucket clamp very loose on west side = One short sleeve broken on west side = Oil drain pipes seem to be stopped up on gear & pinion bearing, oil leaks out very bad = Two sleeves broken on west side = Bolts loose in pinion bearing east side = Sleeves wanted = Plates worn smooth on retarding roll at bottom does not take hold of corn Oil pipes in west side are loose at top = One sleeve broken on west side New plate wanted in delivery = One sleeve broken on west side = Fibre = working out of one clamp on west side = Large hole worn in plate from #1 roller feed = Bolts loose in angle iron over retarding roll at bottom = Bolts loose in clamp on sprocket chain guard over retarding roll at bottom =

Elev.t 1 continued

Bolts loose in plate over retaining roll at bottom
Chute in rails should be gone over & tightened
clamps wear on frame where they bolt on boxes
Bolts loose in pinion bearing east side =
Wooden chute wanted under roller feed = One
bucket clamp loose on west side = Several chain
rope clamps have slipped on east side =
Bottom drum set too high = New friction shoes wanted
Bolts loose in clamp guard & axle iron for
retarding roll bottom = East pinion shaft 2½" = Elevator
leaking on pipe oiling top drum bearing west side =
Arms bad to the east at top = Canvas need repairing =
Have timbers put in to hold iron of liner for 1st Elev. chute
to make same rigid = There should be a rail around
platform of pinion shaft = Oil leaking out of pinion shaft
bearing next to drive pulley = Top drum bearing runs
hot west side = Two wires broken = Blank clamps have
slipped & are loose = Clamps need to be straightened =
One sleeve broken on west side = Ground wires
broken in rope = Hoist ropes rep. to throw out gate &
clutch roller feed = 1" space between roller feed &
hopper stones get in wear ends of roller feed =
One bar bent on gate on roller feed = Shovel caught
by rock getting between bucket & bottom plate in delivery
from roller feed = One sleeve broken on west side
Blank clamps are loose = Bolts loose in frame near
safety catch = Plug in end of pipe in new bucket
need to be fixed

1st 36 Roll –

Canvas needs repairing on Idler
pulley bearing. drive belt
Plate should be repaired in
roll hopper = One check plate loose &
broken in 1st 36" Roll hopper = Sheet iron
in 1st Roll Hopper is wearing on roll.
Plate in hopper needs repairing = One hinge
broken on door over south = Bolts loose in
frame work supporting delivery into chute be
gone over & tightened = Belt tightener pulley
wearing on frame drive belt = 7 Bolts loose
in north & 12 bolts loose in south. Bearings need
to be raised on Idler to take up drive belt =
One new check plate wanted = Two new plates &
dry bolt wanted in delivery into = See on oil
drain pipe leaking very bad east side = New
check plate wanted = Union leaking on pipe
oiling west side = Bolts loose in angle iron
outside hopper = Dry bolt wanted in hopper =
Hop plates worned = 6 bolts loose in north & 1 bolt
loose in north roll = Plates worned = New hoppy
wanted on tightener pulley drive belt = Clamp
plate every other one. Drip pan back of 1st 36"
east of 1st Elev. should be cleaned out so it will
catch oil = Wood & iron plate out of hopper under
Plate is worn under & bits large stones between
plate & roll = Roll 1st Roll hopper tightener

1st 36 Roll

One bolt loose & one bolt wanted in west side roll hopper = Drive belt needs to be taken up = Need setting together = Bolts in plates that were tightened last night were not properly locked = Bolts wanted in sieve plates in hopper = Make provision for new channel iron over south roll = Plates should be screwed Two bolts loose in north roll coupling = Covers needs rep. on east end bearing south roll. Timber should be cut out so as to clear drive belt = Oil leaking very bad north roll casing east side = Have Idler pulley raised to right to take up slack in driving belt = Chute under rolls needs general overhauling = Oil leaking out north roll oil casing east side out side top two Bolts need to be gone over = Have hopper under rolls lined with sheet iron hopper worn through = Plate is loose in hopper under roll = Two bolt broken in plate south roll = One bolt broken in south roll = Covers wants rep. on idler bearing = New check plates wanted = New piece of sheet iron wanted on side of hopper under = New check plate wanted = 2 bolts loose in north, 2 bolts worn in south roll = Have splice on roll drive rep to right = Belt tightener on drive is wearing on frame = Door over north roll needs rep = One bolt broken

2nd 36 Roll —

Several rivets wanted in chute delivering in. Bolt loose in split collar south roll wobbler. Upon looking on oil drain pipe from west end bearing roller feed = One cap screw out of cap on thrust bearing south roll = 7 Bolts loose in north roll = Oil drain pipe leaking from south roll west side out side = Very bad leak back of 2nd 36 Roll. Carpenters work = New plate wanted on retarding roll = Set screw loose in sprocket wheel roller feed = Small sprocket shaft driving roller feed has worked loose = Have wood in hopper rep. front comes out = Heavier chain wanted to lock up door over south roll = Two rivets wanted in hopper = Two bolts wanted in brace supporting hopper. Union leaking on oil drain pipe from west end bearing south roll gear shaft. Worm in hopper = New guard wanted on Roller feed = Fire bolt out of hopper = Lower shaft to clear out of tightener pulley drive belt = Drain pipe stopped up south roll west side out side = Chute delivering in leaks = Chute delivering in leak bad = Measuring cock left open = Chute delivering in need rep = Set over retarding roll nuts hard on rolls = Handle wanted on door over north roll = Bolts need to be gone over = Want closing in =

2d 36 Roll.

Have hopper under rolls lined with sheet iron hopper are worn through = Sprocket wheel on roller feed is loose on key & shaft New wood hopper wanted = New logging wanted on belt tightener drive = Chute delivering in leads bad = Shaft extension that drives roller feed is loose = Oil plates wearing hard on roller feed if retarding roll they should be cut off = Have hopper braced tonight it comes down on roller feed = Oil wanted in gear casing = 2 bolts loose in north roll = Oil drain pipes leaking west side = Oil leaking out of gear casing = dropping down on 2d" roll drive belt =

24" Roll =

Oil last today. Bearing flooded unnecessarily = Shaved flames caused by broken bolt heads from 1st 36 south roll Union leaking very bad on oil drain pipe under west side = Oil leaking out of bearing on north + south = Union leaking on oil drain pipe back of 1st R. = New rubber hose wanted on drip pipe = Have new tooth put in mortise wheel. = New wood + canvas wanted on gear casing = 4 bolts loose in north + 16 bolts loose in south roll = Oil should be cleaned up under gear casings = Belt tightener pulley put on drive belt should be cleaned out = Oil drain pipes leaking on west side = Oil leaking out of gear pulley bearings = New logging needed on belt tightener drive = Log gone on belt tightener = 1 bolt loose in north roll. 17 bolts loose in south roll = Union leaking on pipe oiling wobbler bearings = New canvas needed on north roll wobbler bearing = Pulley broken on belt tightener = Bearing on belt tightener want new canvas = Wants cleaning in = Oil leaking out of west end gear + pulley + shaft bearing = Sheet iron work bad in hopper under roll = Have 24" roll belt hooked tonight = Fire pail wanted = New check plates wanted = Plates wore bad =

24 Roll. Continued

Drip pans should be put under west side bearings to catch oil. Plates on north roll are worn smooth & bolts loose in north shaft. Loose in north rolls. Oil leaks out of north wobbler bearings. Iron drive gears should be examined. Cambs wanted on shaft. Hole worn in chute from 1½ Conv. Chute from 1½ Conv needs rep. Chute from 1½ Conv is too long & chokes up repair to night. Hole worn in chute from 1½ Conv.

Conveyor No 1

Elevator No 2

Mortiss gears should be examined
and tightened
Plaster have two new ropes spliced
for drive
Bottom drum is too high
Canvas wanted on bottom drum
bearing east side
One dog needs repairing. Thread
twice cabred by running engine backward
Oil leaking out of gear bearing on west side
One bucket clamp slipped on east side. Thread
twice cabred by running engine backwards.
Bolts wanted in bottom plate in delivery.
Oil leaking very bad out of top drum
bearing east side. Thread wore on shaft
in rope tightener sheave wheel on drum rope
New plate wanted in delivery from. Rawhide
leading bad at top. New canvas wanted on
top drum bearing east side. Wood work bolts
rop tightener on drive needs up tonight. Canvas
wanted on pinion shaft bearing east side
Board should be put at top to prevent any
one slipping in. Oil pipe leaking on pinion
bearing on west side. Oil pipe running to sh
to 1½ Cons should be braced. Oil leaking out of bea
in cons at top. New belt wanted from dug to shaft 6.

Elev #2 continued.

countershaft back of #1 Dryer driving Elev #2 = Oil leaking out of gauge valves on tank = One clamp very loose on west side = Guards wanted at top = Set screws are loose in driven sheave wheel on drive = Canvas wanted on pinion shaft bearing = Platform around top worn too wide by pipe fitters should be up. Too much thrust motion in ratchet wheel shaft. Nut off bottom hopper = Two oil cups off east side = 7 broken wires in rope = Union leaking near tank at top = Hole worn in bottom plate in delivery from = Bottom drum too high = Manway door left open last night at head #3 conv. on line shaft driving #2 Elev = Oil pipe running down #2 Elev to 1½ Conv should be braced = Oil dropping off of canvas on #2 Elev dogs = Drip pans at top need to be emptied = Oil from pinion bearing draining on gear casing + drops on #2 & 4 dogs.

Dryer No 1 + Dryer furnace

Coupling leaking on oil pipe at top #1 Dryer = Tightener wanted on sprocket chain driving shaker = Retarding door needs repairing in over flow chute at top = New screen plate wanted 2nd screen from top = Top liner sheared on shaker #1 D = Bracket is loose on #1 Dryer that pinion bearing is fastened too driving shaker = Hole worn in chute from top #1 D to 1½ Con = Chute to 1½ Con needs rep = Brickwork need = repairing in furnace = Hole worn in chute at top where sandwich patch is on = Hole in chute from #1 Dryer to 1½ Con = new sandwich patches = Met flange on fan at top nearly worn through = New elbow wanted on draft pipe in front of furnace = Door tightener put on sprocket chain driving shaker = Thermometer glass wanted on #1 Dr. = Lost motion in engine used to drive fan at top #1 Dryer = Hole worn inside of hopper at top = Canvas not put back on small eng. used to drive fan at top = One oil pipe leaking on line shaft driving fan at bottom of #1 Dryer = Oil pipe leaking back of small eng. driving fan at top #1 Dr. = Hole worn in chute from #1 Dryer to 1½ Conv. = Oil leaking on oil drum pipe from burner on countershaft driving shaker in #1 Dryer = Oil pipe + rod leaking on countershaft driving shaker in #1 Dryer

Coal Conveyor –

Picking Belt Conveyor No 1 $\frac{1}{2}$

No 2 Conveyor

No 3 Countershaft =

Oil leaking out of west end bearing = Bad spot in drive belt & Main drive belt groove. Belts very loose in coupling = Oil leaking out of west end bearing = Mercury left open = East end bearing wobbles. Shaft seems to be springy

No 3 Elevator

Mortise gear should be examined & tightened
Springs on oil cups. strike rivets in frame at bottom of elev. west side
Union leaking on oil pipe near tank at top
Oil drain pipes on #3 elev. gear & pinion bearings are stopped up. Oil leaks out very bad
Wheels are dry. Several rope clamps loose on west side. Oil cups need repairing.
Something breaking springs. Springs are striking frame near bottom west side. Oil drip pan leaking & pulley driving. Bolts very loose in rope clamps. Union leaking on oil pipe near tank at top. Out hat rope clamps loose on west side. Drip pan should be put at top to catch oil from pinion bearing west side
Bottom drum is too high. New canvas on bottom drum bearing west side. Wheels dry. Union leaking on oil pipe near tank at top. Elbows leaking on pipe oiling pinion bearing east side. Elev bucket need to catch oil on east side leaks. Out hat wheel loose. One bolt loose & one bolt missing in frame at top. Union & Elbow leaking near tank at top. 7 broken wires in rope. Elbows leaking near tank at top. Bottom drum too high.

Elevator #3 Continued.

Elbow leaking on pipe near tank at top.
Union leaking on oil feed pipe near tank at top.
Drip pan should be put under pinion
shaft bearing to catch oil when ada-

No 3 Conveyor.

Big rope drum northside

Small Rope drum Southside —

Blockhouse No 1

Windows left open, several window lights wanted = Hose bursted on oil drain cans = One oil drain can from fan is running over = Large pulley on countershaft driving fan is loose on bushing = Hose bursted on one oil can oiling fans Canvas needs rep. on fan bearing = Roof needs repairing when carpenters dress up stage for the Exe Sports, need to be cleaned out.

Needs to be cleaned out under where carpenters were working = Oil drain can from fan is running over = Oil leaking out of bearing on belt on countershaft driving fans = Large pulley loose on countershaft driving fan = Dust accumulating on motor driving fan = New rubber hose wanted on cans oiling fans = New rubber hose wanted on cans feeding fan West side = Board fast in one feeder under = Belt on motor driving fan needs to be taken up = One bearing on fan not getting any oil = Drip pan is running over that catches oil from countershaft that drives fan in N.E. = Two rubber hose bursted on drain cans in south end = One fan bearing not getting any oil =

Power House

No 2 Corliss Engine.

Jackshaft No 2 Carlos

Air Compressor large

Air compressor small =

Porter Engine
Pounds = Valve needs packing on lubricator

Dynamos Power House

Idler pulley with flange wanted on drive belt. Oil hose heated on oil drain can - Oil drain can running over. Idler put on belt driving #135 dynamo turns too hard.

Climax Boilers —

Stack at Bricker Plant needs painting = Rigging wanted on Same to paint = Roof needs repairing at Bricker Pl. = Air holes closed over fire door at Bricker. = Examined #9 2 pails of scale in good condition = Steam leaking out of main valve stem on #10 - One 2½" globe valve leaking out of stem at bricker = One tube leaking in #9

Mill 1 =

French Engine

French Engine Jackshaft in Eng Room

West main drive on French engine will need to be taken up soon. Elbow leaking on oil drain pipe on bearing next to west drive pulley. Elbow leaking on oil drain pipe

Main Shaft in Mill -

Wire rope driving south mill line shaft seems to have been spliced to tight shaft springs. Lagging wanted on tightener pulley on belt driving north. Lagging loose on main drive pulley north. Two holes leaking on south mill line shaft.

Raw Exhaust French Eng House

B&W Boilers

8 short tubes leaking on #1 - 2 short tubes leaking #2. Soot should be cleaned out of 2-3 & 4. Kerosene lubricator needs rep. Examined #4 scale in steam drum 1/16" thick. Bricks need rep. in upper combustion chamber. Tubes need cleaning. Mud drum not open. Windows need rep. in B&W Boiler room. 4 tubes leaking on #1.

3 High Roll Jackshaft

Oil Drainpipe leaking next to No 50 M Roll.

Railing wanted on each side of 36" belt.

445 Cenozoic -

Mine pump —

McDeymour Engine —

Motor driving fan for Big Mc engine room needs to be leveled. Bad spot in main drive belt on Mc. Also canvass splice started on drive belt to on dl. Armature on motor driving fan for Big Mc Room needs rep. Main drive belt will need to be taken up soon. Valve stem broke on Mc. Canvas hose on middle bearing Mc studs need to be tightened that hold cylinder to bed little Mc. Barrel catching drain oil from Big Mc is leaking.

Screens over 14 mesh Rolls

1st 14 Mesh Rolls.

Examined oil holes in top thrust bearing = Belt driving roller feed needs to be taken up = Collar foot in bevel gear pinion driving 1-14 M = See leaking on oil drain pipe near tail end #6 Cr = Have canvas put on rope guard = Blown twice = Bottom plate of hopper has two holes in it over top of gate = clutch heats up & heats gear casing = New plates wanted in front screen roller feed steel imbedded in = Blower to be turned off = One bolt wanted in dirt guard over south middle roll bearing = Two bolts loose in bottom hopper Found 14 wires broken in splice of rope = New rubber check pieces wanted on roller feed. Hole worn in side plate in delivery = Same in offset plate in hopper = One stay bolt loose New rubber wanted on wobbler = 2nd hopper needs to be cut so top bearing will not hit = Middle roll bearing out of line causing bearing to run very hot. Take up belt driving turning off bevel tight = New belt wanted to hold #1 hopper in place [illegible]

1st 14 M Rolls Con

each end of bolt for 3/16" cotters - Middle roll is loose on key: Hasp picked up so can be measured = *Bearing bolts wanted for wobblers on 14 M Rolls (1st & 2nd not specified) * Front plates on bottom screen roll feed over 14 M Roll are worn out. * New plate wanted in hopper at head #6 Ton to 14 M Rolls. * Show extra bolt made for new wobblers that holds buffers =

Oil feed pipes at bearings leaking out of tee.

2ND 14 mesh Rolls

Mill men have trouble throwing in clutch. Nut wanted on bolt in bottom sheave wheel guard north side = Bracket not in proper place on bottom hopper = Screws loose in middle roll oil casing south side out side check piece not on right roller feed north side = Bolts loose in top dust guard south side = Two bolts loose in rock = Bolt loose in hopper #2 = Ropes are worn bad. Have hoppers put back to their proper place. North bottom bearing runs hot = New check block wanted #1 hopper roller loose on wobbler shaft = New canvas wanted on clutch = New gate wanted in #1 hopper = Middle bearing runs hot south side. Dust guard loose on seam = Examine oil pipes on middle bearing south side = Middle roll south bearing runs hot sheet iron is loose on dust casings. Hole worn in check plate in delivery = Drip pipes loose = Have sheet iron put in hopper under roll = Wood loose on oil casing roller feed = Middle bearing on north side runs hot = Oil leaking bad out of conveyor bearing under roll = Oil leaking from oil casing on top middle & bottom roll north side = Middle roll has groove on north end 3/8" deep = Bolt loose in rock north side = New wire rope wanted soon =

3d 14 mesh Rolls Continued

4 stay bolts loose = New canvas wanted on roller feed bearing = Oil leaking from south bearing - steel imbedded in = Middle bearing on south side roll runs hot = Gate on #1 hopper needs patching hole worn in it = Have bearing bolts put in tonight = Oil pipe leaks on on wobbler bearing = bottom bearing south side runs hot roll seems to be out of line shimming out of bearing = Have floor rep. not to roll. Oil leaking from globe valve = one stay bolt loose = Dust cap loose on middle roll bearing south side = Belt drives roller feed wants to be taken out = Mud box on oil casing roller feed gears = Thrust bearing runs hot on middle roll = Oil pipes are loose = Cotter pin wanted in bolt on wobbler = Middle roll bearing north side runs hot = Mud collar on roller feed is off = Oil pipes need rep. = Must new rope on 2d, 1st m & H.G. roll one strand pulling out = Oil bearing very bad out of gear casing over gears driving 2, 1st & M 3 H.G. Oil is leaking out of new pipe over Roll where valve is plugged = Low in union of oil pipes =

First 50 mesh Rolls -

Tee leaking on oil drain pipe from wobbler shaft. Ropes are worn bad = should be got ready to run; One large oil hose wanted = Put on wobbler = Dust cap is off middle roll north side = New rope wanted = Bolts are loose in middle roll thrust bearing steel imbedded in = Dirt guard needs rep = Dust cap loose on middle roll bearing north side = Oil pipes on north side rolls are all loose = Shells have worked out 1/4" = Oil pipes need rep = Shimming is out of south bottom bearing = Oil leaking out of wobbler bearing bar wheel loose on wobbler shaft = Drip pipes out bearing on 1st & M 3 H.G. Roll. North side = Oil hot pipe broken = Drip pipe broken on south side = Drain pipe out of south bottom bearing = Oil pipe loose in top bearing = Oil pipes loose in south middle bearing =

2nd 50 mesh Rolls —

Clutch gets warm. = Drip pipe broken on north bottom bearing = Oil casing loose on middle roll bearing south side outside = Same on bottom roll bearing = Screws loose in dust guards north & south side = Split collar loose on wobbler. Minor leaking on pipe from oil tank over = Middle roll corrugated = Ropes are worn bad = Pin on south end bottom roll = Oil pipes broke on bottom bearing = Cap wanted on middle roll thrust bearing = Dust guard on middle roll is loose & ready to drop off south side = New rubbers wanted on wobblers = New rope wanted = Drip pan is broken = Middle roll is corrugated so bad that it gets bolts loose in thrust bearing = Brass on end of top roll needs repairing cap screws are broken - needs turning off = Cap off of middle roll thrust bearing = Drip pipes loose = Dust guard off north side on bottom roll & like needs taping out 1/8" = Minor leaking near tanks = Middle roll south bearing has not take oil bearing is full of grit = One feed pail wanted back of roll 2d floor = Nail imbedded in = Pin on bottom roll south end = Same middle roll south end hard to be turned up & not ready to run = Middle roll thrust bearing should be covered to keep out dust.

2d 50 Mush Rolls

Steel embedding

4 Elevator —

Oil pipe loose in pinion bearing oil leaking out of valve stem next to T tank over 405 Elw = Nale worn in delivery at top. new plate wanted = Wheels dry = New raw hides wanted at top = Bottom drum too high = Spring is weak on one dog = Pieces of wood fastened to frame of #6 Elw at delivery from #6 Con are wearing loose. wearing on buckets = One set screw out of gear during 405 ele oil wanted in casing = One dog needs rep = Oil wanted in gear casing = Ratchet wheel loose on shaft = Arc light needs rep. at top = Semicircle worn in check plate in delivery from 6 Con to #4 Elw =

5 Elevator =

wheels dry = Wheels dry = Guards wanted at top = New rawhides wanted at top = Iron plates in delivery tops is worn out. New plate wanted = broken wires in ropes = Bottom drum to high = Union leaking on oil drain pipe from bevel gear drive shaft = Dog need rep = Drive needs to be taken up = New lagging wanted at tightener on drive =

6 Elevator —

Oil leaking out of top drum + gear bearing. Drain pipes seem to be stopped up = Two unions leaking on pipes oiling counter shaft drive = Oil drain pipe leaking from pinion shaft bearing next to drive pulley = Bolts need to be gone over in wood lagging on top drum. Spring is weak on one dog = Drain can should be put at top to catch oil = Bolts loose in pinion bearing at top west side = One drip pan under #6 Elev gear casing is leaking on drive belt = Oil leaking out of #1 Elev pinion bearing on west side =

#7 Elevator

Put one new bucket on in place of one that came off = End bearing next to sprocket driving #7 Elev wants babbitt liner between shell & cap.

Dryer No 2

Dust discharge pipe half full of dust. Belt needs replacing that drives fan at top = Rawhides leaking at top = New rawhides wanted on drive shaft = One fire pail wanted = Rawhides need rep. on fan at bottom = Bolts loose in east end bearing & brace of main drive shaft = One rawhide needs rep. on roller feed bearing at top = New rawhides wanted at top & bottom Leadweight loose on rope sheave wheel in #1 Mill driving to #2 Dryer = Channel iron at top should be put on elev = Dust discharge pipe half full = Dust on roof = Union leaking on drain pipe from east end bearing of countershaft driving fan at top = Oil runs out of roller feed bearing on inside #2 Dryer Crossing dirt to get hand if there is not attended to it will block dryer from top to bottom = Drain pipe loose in drip pan that catches oil from #2 Dry roller feed bearing Main oil pipe leaking near tank at top = Pipe leaking that feeds #1 Cr Idler bearings at top = Duplicate drive rope to #2 Dryer is getting saturated with oil = Oil flaping out of countershaft bearing next to sheave = Oil is getting on belt driving fan at top Oil comes from fan bearing = Drip

Dryer #2 Continued

pans at top should be emptied

14 Mesh Screens -

Some of distributors off. Wood bottom washed worn through. new rawhides wanted on counter shaft driving roller feed. Distributors were bad. New door wanted on #20 Banks. Set screws loose in pulley driving roller feed. Bad leak in roof.

50 Mesh Screens

3 pieces of iron wanted in hopper under 50 M. screens over 3 HR.

12" Magnets

Leaks have carpenter look up

8" Magnets

Line shaft driving roller feed broken — Oil drain pipe wanted on west end bearing of line shaft: Oil leaking out of east end bearing of counter shaft driving 8" mag line shaft. New lagging wanted on pulley on counter shaft driving line shaft: 1" iron oil drain pipes leaking from line shaft bearing: Union leaking on oil pipe west end floor: Rawhides leaking on line shaft. Thread stripped on oil pipes in several bearings on line shaft: Oil drain pipe stopped up on east end bearing of counter shaft driving line shaft: Union leaking on oil pipe floor north side: Hole worn in chute on trunk #1

Blower Floor —

One wood pulley loose on line shaft. 24" 8 ply belt wants hooks taken out. Oiling up 8" Ray floor. One wooden pulley loose on line shaft. Hose leak repd on blower floor lets dust down on cor of 4" Mag. Mercury cocks left open on blower floor line shaft last night. Union leaking on blower floor near #6 Elev.

4" Magnets -

One window needs rep on floor. = New gears new top for oil casing & stop bolts to hold cap in place wanted on roll fed drive #1 Bank. One window needs rep on floor. = New canvas wanted on roll fed clutch #8 Bank. = New water barrel wanted on floor = New rawhides wanted on line shaft. = Chutes from mill rep. very bad cracks in chute 1/8" wide = Coupling loose on line shaft = Globe valve leaking on air pipe on 4" Mag floor = Water in barrel south east corner of 4" Mag floor should be changed & Parting boards need setting on #4 & 6. = Several new sprocket wheels wanted on roller feeds.

Belt machine

Sand House

Elbow leaking on oil pipe near tank =
Coupling " " " " from " =

No 2 Stock House

Concentrates running out of door

Fire apparatus.

Piston rods need packing on water end of fire pumps. Valve in #3 fire plug is leaking = Fittings wanted to connect fire hose. Water leaking out of valve stem on fire valve under rail road track = Hose house removed from #2 fire plug. Two fire pails wanted in mixer room. One fire pail wanted in eng. room at Bricker. Fire pail wanted at Stoker. One fire pail wanted in muck house =

General

No 1 Loco

Brake shoes wanted. Nuts wanted on rear step. Head light needs rep. Hand brake needs rep. Steam gauge requires 12# string. Screen wanted in water tank. Headlight bracket broke.

No 2 Loco

New journal brasses wanted = Lost motion in cross head = one four brass wanted = Cover wanted on coal box = screen wanted in water tank = One wheel wearing on frames = Connecting rod striking brake shoe = Cab needs repe=

No 3 Loco

Rear step needs rep = Split key wanted on brake shoe = Wedge screen bent on back journals = Jam nut loose on brake rod = One cylinder cock broke = Bolts need to be tightened in front end = Front head needs painting = Front head need rep = Tubes are leaking = Check valve seat ruined, needs rep. Door wanted in side of ash pan = Reversing gear needs rep =

Yard Engine —

#9 Elevator

Bolts loose in bevel gear bearing driving #9 Elev. - Canvas torn on tail end of pulley bearing of Con delivering in #9 Elev.